

ABSTRACT OF THE DISCLOSURE

A threshold voltage adjusted long channel transistor fabricated according to short channel transistor processes is described. The threshold-adjusted transistor includes a substrate with spaced-apart source and drain regions formed in the substrate and a channel region defined between the source and drain regions. A layer of gate oxide is formed over at least a part of the channel region with a gate formed over the gate oxide. The gate further includes at least one implant aperture formed therein with the channel region of the substrate further including an implanted region within the channel between the source and drain regions. Methods for forming the threshold voltage adjusted transistor are also disclosed.

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